



COMP 506, Spring 2021

Compiler Construction for Graduate Students

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Course Objectives: Students in COMP 506 will develop a fundamental understanding of scanning, parsing, translation, program analysis and code generation. COMP 506 and COMP 412 are mutually exclusive; a student may only receive credit for one of them.

The programming assignments in COMP 506 will help students develop skills in the translation, analysis, and transformation of programs, represented in multiple abstract forms.

On exams, students are responsible for the contents of both the book and the lectures.

Assignments & Grading Policies: The course will have two exams. It will have two programming assignments, or “labs”. Each programming assignment has a detailed handout that describes the assignment in depth.

Exam points will be assigned as follows. Each of the two exams is worth 25% of the final grade. The programming assignments will also total 50%, each lab having a weight of 25%.

Exams are given under the Rice Honor Code. Students are encouraged to discuss the programming assignments with each other. However, each student must design and write all of the code that they submit for each lab, other than standard libraries and instructor-supplied material.

White-board discussions between students about the algorithms and techniques needed for the labs are permitted. Any form of code sharing (including looking at each other’s code) is not.

Textbook: Material will primarily be drawn from *Engineering a Compiler, 2nd Edition*, by Cooper and Torczon, and secondarily from *Compilers: Principles, Techniques, and Tools, 2nd edition* by Aho, Lam, Sethi and Ullman.

Discussion Site: We will be using Piazza to handle questions about assignments, exams, and for general class discussion. You will access Piazza through Canvas.

Course Web Site: Canvas (<https://canvas.rice.edu/courses/38461>).

Lecture slides, handouts for the programming assignments, and announcements will be posted to the course web site. Any changes to course policies will be posted on this web site.

Notice: Any student with a disability requiring accommodations in this class should contact Rice’s Coordinator for Disability Support Services, Alan Reynolds.